

ABSTRACT

A system and method for enhancing contrast in a digital projector is disclosed. The method includes positioning a first optical component, such as a digital micro-mirror device (DMD), and a second optical component, such as a total internal
5 reflection (TIR) prism, along a light path. The first optical component and the second optical component are separated by a gap. The perimeter of the gap is sealed with a sealant. The gap may be evacuated to provide substantially a vacuum in the gap. Alternatively, the gap may be filled with a fluid, such as a liquid or a gel. The fluid may have a refractive index substantially similar to the refractive index of at least one
10 of the optical components.